

**APPARATUS AND METHODS FOR TREATING BALLAST WATER BY USING
ELECTROLYSIS OF NATURAL SEAWATER**

ABSTRACT

An electrolysis-type apparatus for treating ballast water using NaOCl and a method thereof is provided. The apparatus includes: a ballast tank; an electrolyzer; a first circulation pump; a second circulation pump; and a controller. The ballast tank is installed in a ship to store seawater. The electrolyzer is connected with the ballast tank and electrolyzes the seawater. The circulation pumps are installed to allow the ballast water to flow into the electrolyzer and to discharge the electrolyzed water containing NaOCl to the ballast tank. The controller supplies power to the electrolyzer so as to control an NaOCl density and controls the circulation pumps. The apparatus and the method safely treat the seawater. Thus, environment pollution and ecosystem destruction can be minimized.

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AMENDMENTS TO THE ABSTRACT

After the claims, please insert a page containing the Abstract of the Disclosure which is attached hereto as a separately typed page.